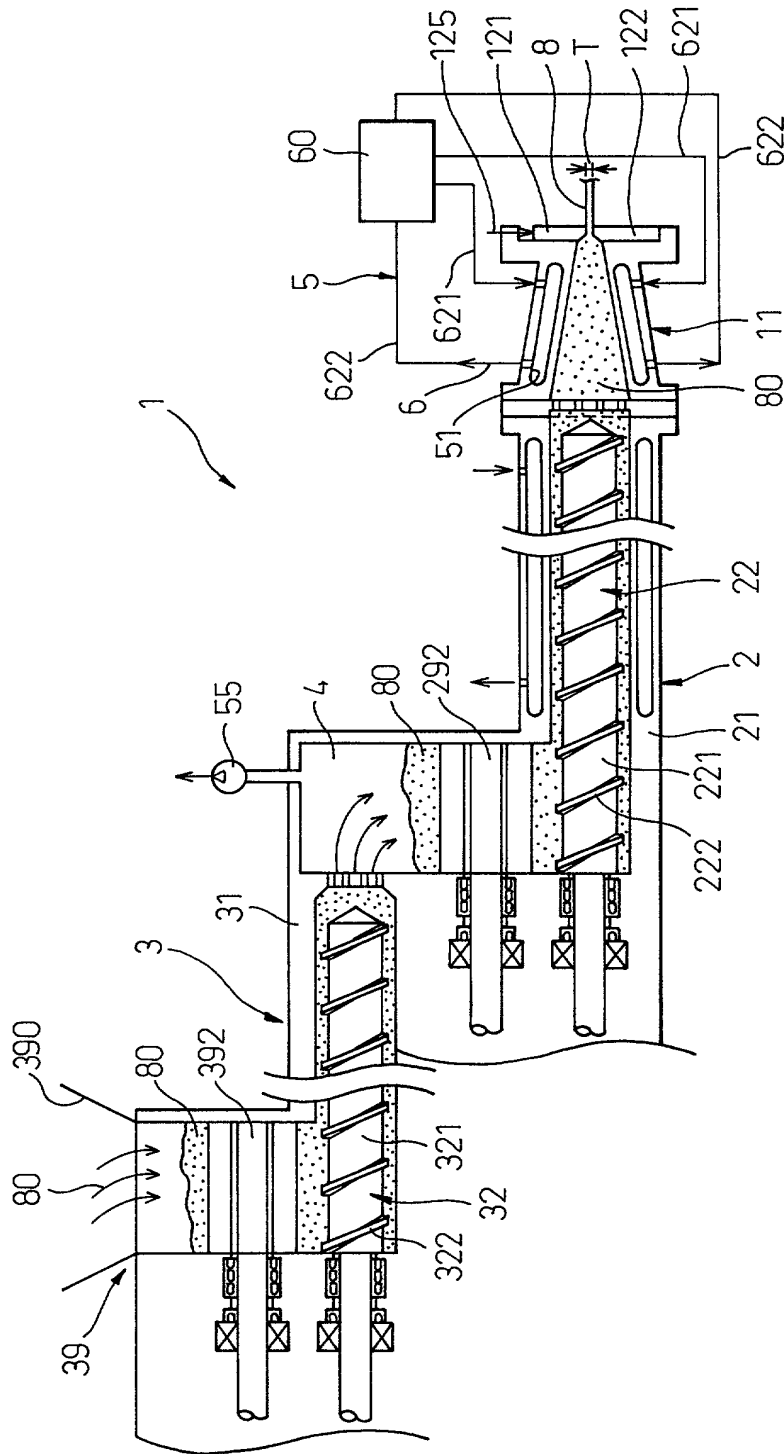


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Fig.1



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Fig.2

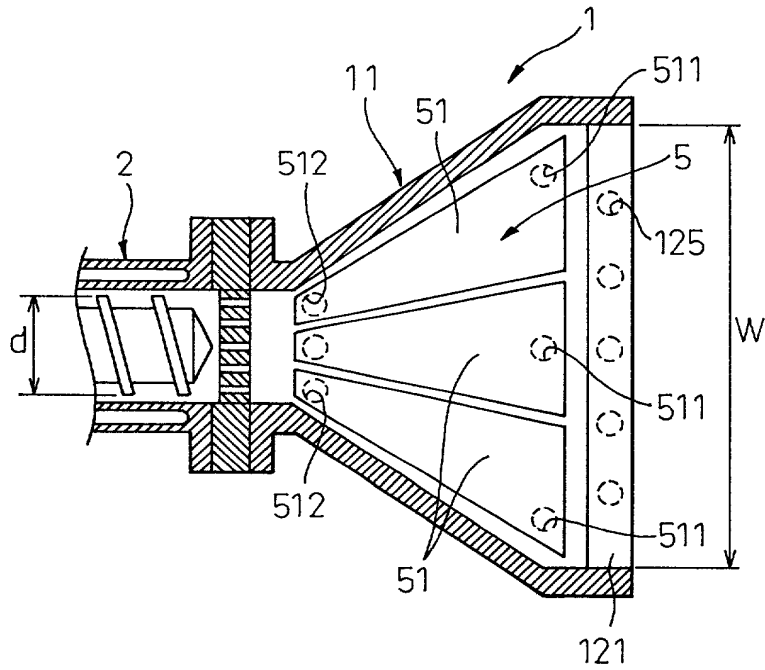


Fig.3

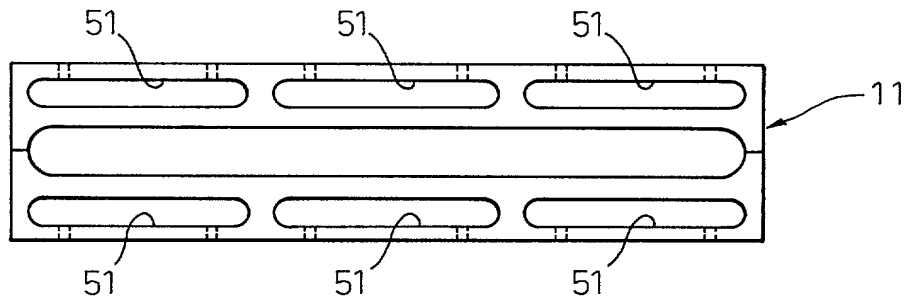
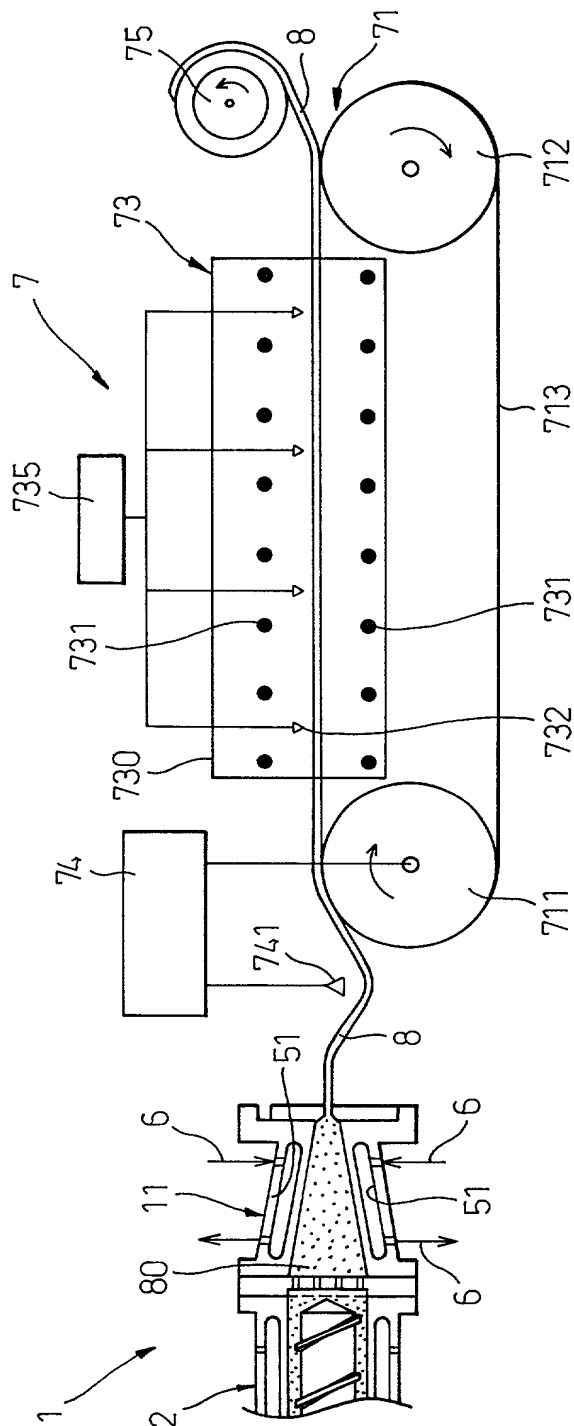


Fig.4



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Fig.5(a)

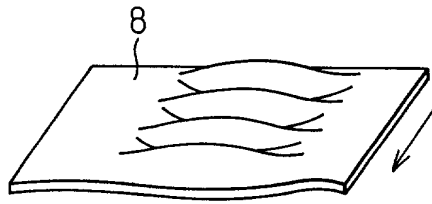


Fig.5(b)

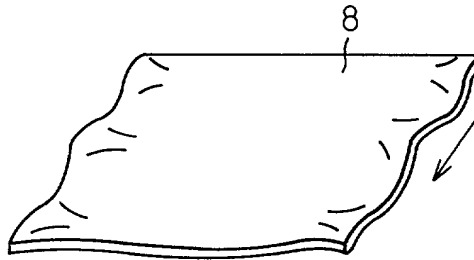
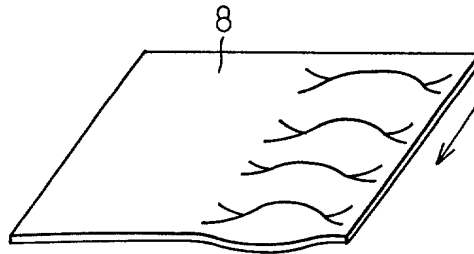


Fig.5(c)



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Fig.6

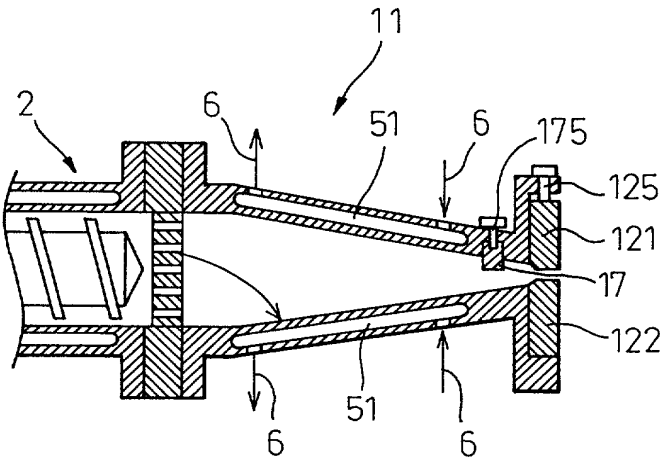
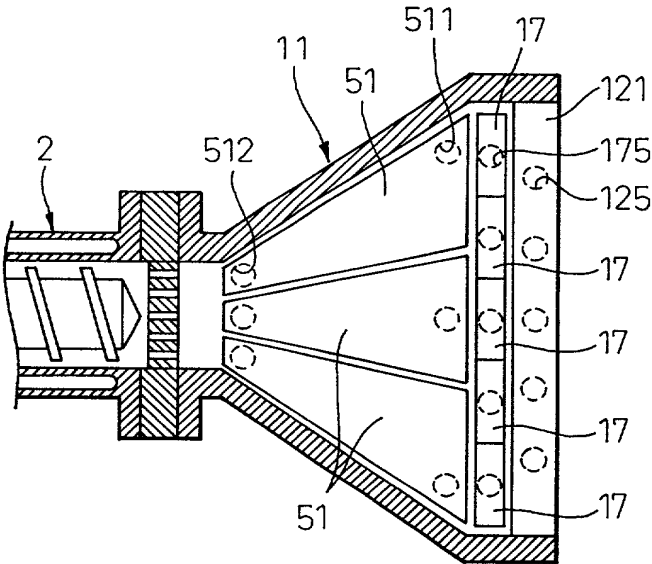


Fig.7



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Fig.8

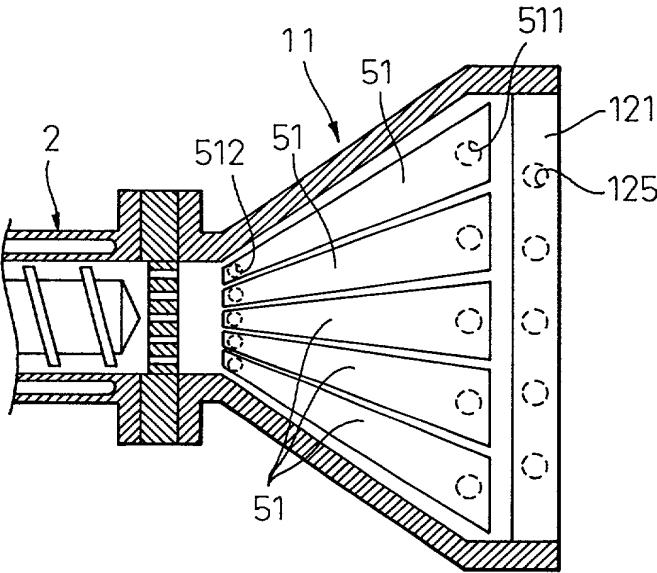
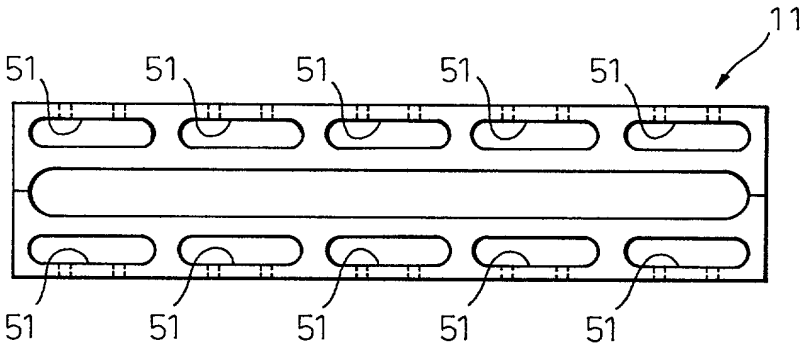


Fig.9



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Fig.10(a)

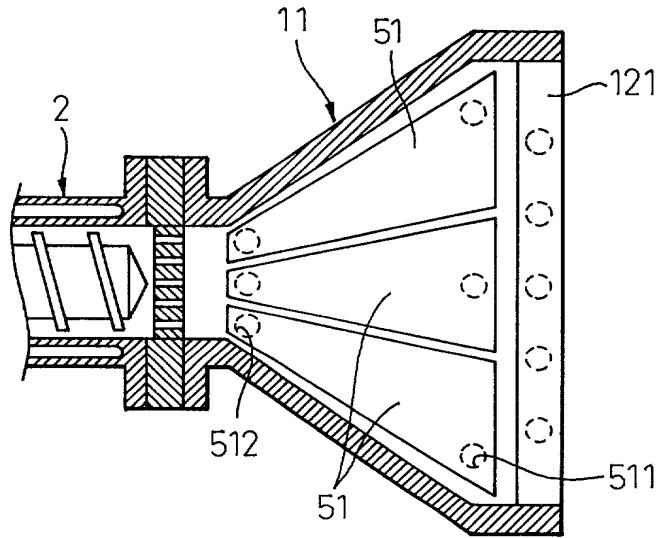
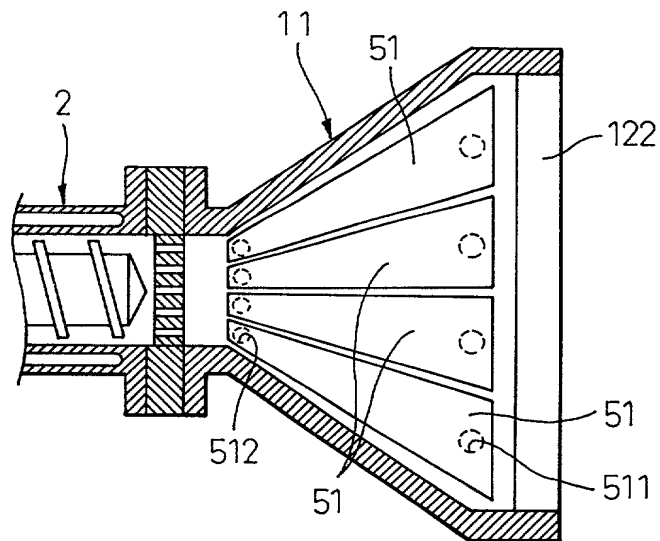


Fig.10(b)



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Fig.11

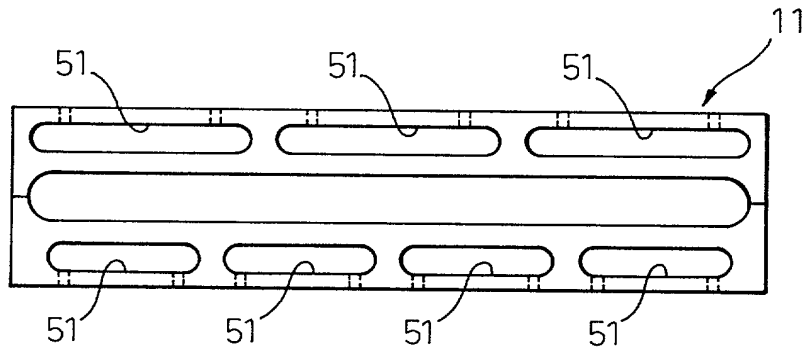
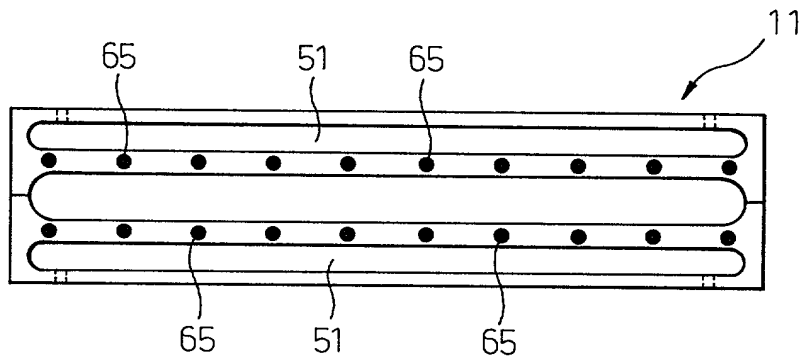
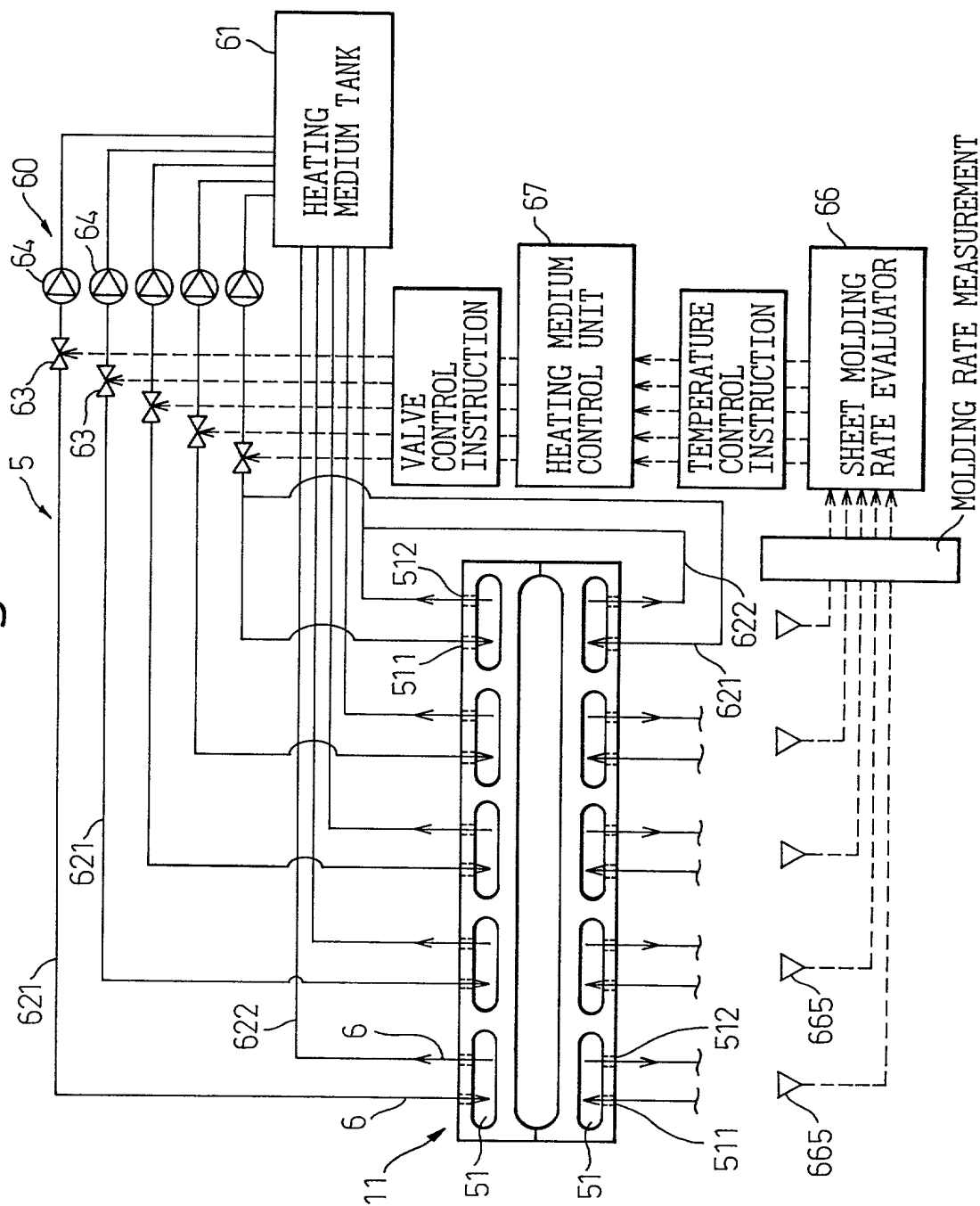


Fig.12





| Climatic variables      |       | Soil variables          |       |
|-------------------------|-------|-------------------------|-------|
| Temperature (°C)        | 19.5  | Temperature (°C)        | 19.5  |
| Relative humidity (%)   | 78.5  | Relative humidity (%)   | 78.5  |
| Wind speed (m/s)        | 1.5   | Wind speed (m/s)        | 1.5   |
| Soil moisture (%)       | 15.5  | Soil moisture (%)       | 15.5  |
| Soil pH                 | 6.5   | Soil pH                 | 6.5   |
| Soil organic matter (%) | 1.5   | Soil organic matter (%) | 1.5   |
| Soil nitrogen (g/kg)    | 0.15  | Soil nitrogen (g/kg)    | 0.15  |
| Soil phosphorus (g/kg)  | 0.05  | Soil phosphorus (g/kg)  | 0.05  |
| Soil potassium (g/kg)   | 0.5   | Soil potassium (g/kg)   | 0.5   |
| Soil calcium (g/kg)     | 1.5   | Soil calcium (g/kg)     | 1.5   |
| Soil magnesium (g/kg)   | 0.5   | Soil magnesium (g/kg)   | 0.5   |
| Soil sulfur (g/kg)      | 0.1   | Soil sulfur (g/kg)      | 0.1   |
| Soil zinc (g/kg)        | 0.01  | Soil zinc (g/kg)        | 0.01  |
| Soil copper (g/kg)      | 0.001 | Soil copper (g/kg)      | 0.001 |
| Soil iron (g/kg)        | 0.1   | Soil iron (g/kg)        | 0.1   |
| Soil manganese (g/kg)   | 0.01  | Soil manganese (g/kg)   | 0.01  |
| Soil boron (g/kg)       | 0.001 | Soil boron (g/kg)       | 0.001 |
| Soil sodium (g/kg)      | 0.1   | Soil sodium (g/kg)      | 0.1   |
| Soil chloride (g/kg)    | 0.01  | Soil chloride (g/kg)    | 0.01  |
| Soil fluoride (g/kg)    | 0.001 | Soil fluoride (g/kg)    | 0.001 |
| Soil bromine (g/kg)     | 0.001 | Soil bromine (g/kg)     | 0.001 |
| Soil iodine (g/kg)      | 0.001 | Soil iodine (g/kg)      | 0.001 |
| Soil selenium (g/kg)    | 0.001 | Soil selenium (g/kg)    | 0.001 |
| Soil tellurium (g/kg)   | 0.001 | Soil tellurium (g/kg)   | 0.001 |
| Soil vanadium (g/kg)    | 0.001 | Soil vanadium (g/kg)    | 0.001 |
| Soil cobalt (g/kg)      | 0.001 | Soil cobalt (g/kg)      | 0.001 |
| Soil nickel (g/kg)      | 0.001 | Soil nickel (g/kg)      | 0.001 |
| Soil cadmium (g/kg)     | 0.001 | Soil cadmium (g/kg)     | 0.001 |
| Soil lead (g/kg)        | 0.001 | Soil lead (g/kg)        | 0.001 |
| Soil mercury (g/kg)     | 0.001 | Soil mercury (g/kg)     | 0.001 |
| Soil arsenic (g/kg)     | 0.001 | Soil arsenic (g/kg)     | 0.001 |
| Soil chromium (g/kg)    | 0.001 | Soil chromium (g/kg)    | 0.001 |
| Soil molybdenum (g/kg)  | 0.001 | Soil molybdenum (g/kg)  | 0.001 |
| Soil barium (g/kg)      | 0.001 | Soil barium (g/kg)      | 0.001 |
| Soil strontium (g/kg)   | 0.001 | Soil strontium (g/kg)   | 0.001 |
| Soil zirconium (g/kg)   | 0.001 | Soil zirconium (g/kg)   | 0.001 |
| Soil niobium (g/kg)     | 0.001 | Soil niobium (g/kg)     | 0.001 |
| Soil hafnium (g/kg)     | 0.001 | Soil hafnium (g/kg)     | 0.001 |
| Soil tantalum (g/kg)    | 0.001 | Soil tantalum (g/kg)    | 0.001 |
| Soil tungsten (g/kg)    | 0.001 | Soil tungsten (g/kg)    | 0.001 |
| Soil rhenium (g/kg)     | 0.001 | Soil rhenium (g/kg)     | 0.001 |
| Soil ruthenium (g/kg)   | 0.001 | Soil ruthenium (g/kg)   | 0.001 |
| Soil rhodium (g/kg)     | 0.001 | Soil rhodium (g/kg)     | 0.001 |
| Soil palladium (g/kg)   | 0.001 | Soil palladium (g/kg)   | 0.001 |
| Soil silver (g/kg)      | 0.001 | Soil silver (g/kg)      | 0.001 |
| Soil gold (g/kg)        | 0.001 | Soil gold (g/kg)        | 0.001 |
| Soil platinum (g/kg)    | 0.001 | Soil platinum (g/kg)    | 0.001 |
| Soil osmium (g/kg)      | 0.001 | Soil osmium (g/kg)      | 0.001 |
| Soil iridium (g/kg)     | 0.001 | Soil iridium (g/kg)     | 0.001 |
| Soil selenium (g/kg)    | 0.001 | Soil selenium (g/kg)    | 0.001 |
| Soil tellurium (g/kg)   | 0.001 | Soil tellurium (g/kg)   | 0.001 |
| Soil vanadium (g/kg)    | 0.001 | Soil vanadium (g/kg)    | 0.001 |
| Soil cobalt (g/kg)      | 0.001 | Soil cobalt (g/kg)      | 0.001 |
| Soil nickel (g/kg)      | 0.001 | Soil nickel (g/kg)      | 0.001 |
| Soil cadmium (g/kg)     | 0.001 | Soil cadmium (g/kg)     | 0.001 |
| Soil lead (g/kg)        | 0.001 | Soil lead (g/kg)        | 0.001 |
| Soil mercury (g/kg)     | 0.001 | Soil mercury (g/kg)     | 0.001 |
| Soil arsenic (g/kg)     | 0.001 | Soil arsenic (g/kg)     | 0.001 |
| Soil chromium (g/kg)    | 0.001 | Soil chromium (g/kg)    | 0.001 |
| Soil molybdenum (g/kg)  | 0.001 | Soil molybdenum (g/kg)  | 0.001 |
| Soil barium (g/kg)      | 0.001 | Soil barium (g/kg)      | 0.001 |
| Soil strontium (g/kg)   | 0.001 | Soil strontium (g/kg)   | 0.001 |
| Soil zirconium (g/kg)   | 0.001 | Soil zirconium (g/kg)   | 0.001 |
| Soil niobium (g/kg)     | 0.001 | Soil niobium (g/kg)     | 0.001 |
| Soil hafnium (g/kg)     | 0.001 | Soil hafnium (g/kg)     | 0.001 |
| Soil tantalum (g/kg)    | 0.001 | Soil tantalum (g/kg)    | 0.001 |
| Soil tungsten (g/kg)    | 0.001 | Soil tungsten (g/kg)    | 0.001 |
| Soil rhenium (g/kg)     | 0.001 | Soil rhenium (g/kg)     | 0.001 |
| Soil ruthenium (g/kg)   | 0.001 | Soil ruthenium (g/kg)   | 0.001 |
| Soil rhodium (g/kg)     | 0.001 | Soil rhodium (g/kg)     | 0.001 |
| Soil palladium (g/kg)   | 0.001 | Soil palladium (g/kg)   | 0.001 |
| Soil silver (g/kg)      | 0.001 | Soil silver (g/kg)      | 0.001 |
| Soil gold (g/kg)        | 0.001 | Soil gold (g/kg)        | 0.001 |
| Soil platinum (g/kg)    | 0.001 | Soil platinum (g/kg)    | 0.001 |
| Soil osmium (g/kg)      | 0.001 | Soil osmium (g/kg)      | 0.001 |
| Soil iridium (g/kg)     | 0.001 |                         |       |



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Fig.14

